

Disruptive Materials

Upsalite®

Upsalite or mesoporous magnesium carbonate (MMC), is Disruptive Materials' first materials technology platform. Upsalite is an amorphous (non-crystalline form), anhydrous and porous form of magnesium carbonate, $MgCO_3$.

Upsalite® general facts

- Upsalite is derived from the naturally abundant earth element Magnesium.
- Upsalite is synthesized without use of any pore forming surfactants. The manufacturing process of Upsalite is scalable and is performed in standard industry equipment in ISO 9001:2008/ISO 14001:2004 certified facilities.
- Upsalite obtained REACH approval in 2019 for production up to 10 ton/year.
- Upsalite has been developed as an ingredient for different applications and is currently available in different material grades for applications in sports performance products, color cosmetics and hair care.
- The features and benefits of Upsalite have been demonstrated in over 15 peer-reviewed scientific publications.

Features and Product Opportunities

- Upsalite is a truly unique and versatile material enabling a wide range of applications and product opportunities.
- Upsalite has a very large pore volume and surface area and can absorb both lipophilic and hydrophilic substances. These are the key properties behind its unique capacity to absorb high amounts of both moisture, and oil and excellent capacity to load and release active ingredients.
- The porous structure and superior absorption capacity of Upsalite can be used in many different products and applications for absorption of moisture, lipids, and/or odor, as well as for loading and release of for instance beneficial agents or oils, active cosmetic or pharmaceutical ingredients or perfumes.

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